Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

AEE, YSTSD

No. 2nd & part bill

Date 20 02/2022-23

SBR No: 02

YNK-DBR No.....

Date.....Dated.....

Division: Yelahanka. Sub Division: Yelahanka

Bill Received No.....Cash Book Voucher No.....dated.....

Date: 11/4/2022

Scheduled Docket No.....

Name of Work : Comprehensive Development of Roads and Drains At Adtiya Nagara Chikbettahalli , Jyothinagara Munishamappa Layout and Judicial Layout in Ward no-03 and 04 of Yelahanka Division(Package-05)

Job Code No: 003-21-000043 **Est. cost: 750.00 lakhs**

Name of Contractor and Full Address : Sri .G.Chandrashekar(Sri sai Charan Construction), Bangalore.

Work Order No: **BBMP/EE/YNK.D/EPMT-06/W.O/232/2021-22,** **Dated : 01-02-2021**

Certified that the measurements were taken by me on 23/02/2022 and recorded in pages 117850 - 117854 of measurement Book No 179/2018-19 and that the work is satisfactorily executed.

Contractor

AE

Officer-in-charge of work

Certified that the measurements were taken by me on 23/02/2022 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Total- 4,91,03,586-28

Sub-Division Officer

If Memorandum of Payment Privious payment 2,92,30,121-28

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being.....percent Rs.....
3) Deduct amount to be held in Balance
4) Deduct Payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied.
   Now made recovery of amount creditable to this/other work
   Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office Cash Book Voucher No.....
   date .....less adjustments
7) Net amount due to or from contractor
   Unadjusted items
8) Advance to contractor for materials brought to site (as detailed) within value of Governme
   materials supplied

Gross Amt =Rs	1,98,73,465-00
FSD	= Rs —
COST	= Rs 1,77,442-00
SUBS	= Rs 1,77,442-00
IT	= Rs 1,98,735-00
LC	= 1,98,735-00
CESS	= 19,873-00
R	= 47259-00
	= Rs 12,44,822-00
	Rs 1,86,28,643-00

Contractor's Signature

Received Rs.....(in words)

By Cash and by adjustment of Payment as per memorandum.

Witnesses :

1.

2.

Dated.....Signature of Contractor

(For use in the Office)

Audited & Admitted for Rs. 1,98,73,465-00

1,86,28,643-00 by Cheque

and Rs. 12,44,822 by adjustment

Accts Stpdt. yelahanka Division BBMP

Exe. Engineer yelahanka Division BBMP

Executive Engineer

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of Officer Making Payment

Name of Work:Comprehensive Development of Roads and Drains At Adhitiya nagara Chikkabettahalli, Jyothinagara Munishamappa Layout and Judicial Layout in Ward no-03 and 04 of Yelahanka Division(package-05)

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts	Cum	78.84	705.84	55649.00	65.26	46063.12	0.00	705.84	0.00	65.26	46063.12
2	Removing And Refixing Stone Slabs Of Drains and Pointing in CM(1:3) Complete With all Lead and Lift as Per Direction of Engineer in Charge	Sqm	2777.00	116.81	324382.00	1647.12	192400.09	0.00	116.81	0.00	1647.12	192400.09
3	Removing And Refixing Stone Slabs Of Kerb Stones Complete With all Lead and Lift as Per Direction of Engineer in Charge	M	1110.96	110.13	122351.00	1110.00	122244.30	0.00	110.13	0.00	1110.00	122244.30
4	Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification	Sqm	277.74	1171.43	325353.00	268.00	313943.24	0.00	1171.43	0.00	268.00	313943.24
5	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking	Cum	4635.05	230.82	1069863.00	2085.96	481481.29	1651.39	230.82	381173.00	3737.35	862654.29
6	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift	Cum	10.60	2702.19	28644.00	0.00	0.00	0.00	2702.19	0.00	0.00	0.00
7	b) 40mm Jelly	Cum	10.60	1145.46	12142.00	0.00	0.00	0.00	1145.46	0.00	0.00	0.00
8	c) 20mm jelly	Cum	10.60	1145.46	12142.00	0.00	0.00	0.00	1145.46	0.00	0.00	0.00
9	Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per	Kgs	945.00	105.68	99868.00	0.00	0.00	0.00	105.68	0.00	0.00	0.00
10	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications	Cum	350.67	4701.30	1648605.00	28.08	132012.50	228.92	4701.30	1076224.00	257.00	1208236.50

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
11	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications	Cum	711.64	7420.17	5280490.00	53.56	397424.31	454.24	7420.17	3370571.00	507.80	3767995.31
12	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.	Tn	44.13	76551.29	3378209.00	3.22	246495.15	27.58	76551.29	2110976.00	30.80	2357471.15
13	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc	Sqm	2758.56	2452.68	6765865.00	835.47	2049140.56	949.41	2452.68	2328599.00	1784.88	4377739.56
14	Providing and Fixing pre cast covering Slab 150mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	525.60	3135.91	1648235.00	181.95	570578.82	0.00	0.00	0.00	181.95	570578.82
15	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and Jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc	Sqm	94.80	5686.19	539051.00	0.00	0.00	23.16	5686.19	131693.00	23.16	131693.00
16	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of	Nos	5142.87	453.89	2334297.26	2249.00	1020798.61	2893.00	453.89	1313103.77	5142.00	2333902.38
17	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification	Sqm	694.24	89.00	61787.36	69.16	6155.24	388.83	89.00	34605.87	457.99	40761.11
18	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.	Cum	8722.05	68.40	596589.00	999.09	68337.76	2436.28	68.40	166642.00	3435.37	234979.76

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
19	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.	Sqm	16001.41	6.67	106730.00	549.00	3661.83	4872.56	6.67	32500.00	5421.56	36161.83
20	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications	Cum	2565.84	2093.67	5372023.00	242.22	507128.75	730.88	2093.67	1530230.00	973.10	2037358.75
21	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	3857.00	2100.34	8101012.00	304.58	639721.56	1120.69	2100.34	2353827.00	1425.27	2993548.56
22	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.	Sqm	16769.57	31.15	522373.00	16768.37	522334.73	0.00	31.15	0.00	16768.37	522334.73
23	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	1310.94	6724.88	8815915.00	1027.52	6909948.70	243.63	6724.88	1638369.00	1271.15	8548317.70
24	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / orcompressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications	Sqm	53786.17	5.56	299052.00	31425.28	174724.56	0.00	5.56	0.00	31425.28	174724.56
25	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning	Sqm	53786.17	13.35	718046.00	31425.28	419527.49	4872.56	13.35	65049.00	36297.84	484576.49

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
26	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)	Cum	1991.55	7719.43	15373631.00	1257.01	9703400.70	146.18	7719.43	1128401.00	1403.19	10831801.70
27	KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass	Sqm	1236.98	477.25	590349.00	739.90	353117.28	172.24	477.25	82202.00	912.14	435319.28
28	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by	Nos	506.00	374.90	189700.00	506.00	189699.40	0.00	374.90	0.00	506.00	189699.40
29	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver	Cum	161.70	3988.20	644892.00	138.38	551887.12	0.00	3988.20	0.00	138.38	551887.12

Sl No	Description of Work	Unit	As per Sheduale -B			Previous measurement		Present Measurement			Up to date	
30	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cuting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.	Cum	162.75	5468.90	890064.00	138.38	756786.38	0.00	5468.90	0.00	138.38	756786.38
	Total				65927309.62		26098323.00			17744165.64		43842488.64
	GST 12%				7911277.15		3131798.76			2129299.88		5261098.64
	Grand Total				73838586.78		29230121.76			19873465.52		49103587.28

Contractor

Consultant

Assistant Engineer